PLAT DRAFTING

Four example plats are included at the end of this chapter. These plats depict current standards and practices as required by District One, except in the area of Utility identification. See Chapter 9 of the WISDOT Guide To Utility Coordination for examples of how to identify Utility ownership and interests on a Right of Way plat. Please use these example R/W plats and the WISDOT Guide To Utility Coordination as resources for implementing these District One requirements.

DISTRICT ONE PLAT POLICY – SEPTEMBER 2002

The Facilities Development Manual (FDM) lists the minimum requirements for preparation of Right of Way plats in Procedure 12-15-1. The Real Estate staff at District 1 - DOT has determined that additional information above and beyond the minimum requirements must be shown on the detail sheets of plats to permit a comprehensive, fair and equitable appraisal to be completed for each parcel.

The figures located in Procedure 12-15-1 display examples of the proper way to show some of the required information on a plat. Sample copies of individual sheets or complete plats can be obtained, if requested, from the District 1 office for use as examples of plat preparation procedures.

The following list of policy requirements for District 1 overrides the Facilities Development Manual in these areas.

1. A minimum band of topography 500 feet wide in rural areas and 200 feet wide or the depth of one row of lots, whichever is greater, in urban areas on each side of the reference line shall be shown on all plats using aerial based planimetric mapping developed on CADDS.

Conventionally drawn board drafted plats shall include the minimum topography required by the FDM (200' on each side) plus additional topographic features visible on aerial mosaic and required for appraisal purposes.

- 2. The following topographic features shall be shown on all plats:
 - a. All fence lines.
 - b. Septic tanks, mound systems, drain fields and vent pipes.
 - c. Driveways and field entrances.
 - d. Existing Roadways (edges of pavement); the centerline generally is unnecessary unless the centerline is the same as the new reference line.
 - e. Wells, cisterns, and underground tanks.

PLAT DRAFTING	September 16, 2002

Right of Way Unit Plat Guidelines

DISTRICT ONE PLAT POLICY – SEPTEMBER 2002 - continued

f. All utilities, both overhead and underground such as power poles, telephone poles, buried electric cables and telephone cables, cable TV, gas, water and sanitary sewer. All utilities are to be marked using standard symbols as shown in the FDM, Procedure 15-5-30 and identified as to who owns them.

A separate utility plan may be prepared to avoid showing all utilities within the existing right of way on the plat in an effort to reduce clutter and result in a clearer plat. The compensable utilities located in the new acquisition areas still need to be shown on the R/W plat. The separate utility plan, if used, must contain the reference line, existing R/W, new R/W line with pluses and distances out, all existing utilities both overhead and underground, slope intercepts, utility easements, and the proposed work. This separate utility plan will not be a part of the R/W plat but must be furnished at the same time as the plat. If this option is elected, the utility plan shall be in the standard detail sheet format.

- g. Existing signs.
- h. Foundations, ruins, steps, walls, etc.
- i. Buildings.
- 3. All ornamental shrubs and trees shall be shown on the plat. Show the edge of wooded areas and isolated single trees along yards, driveways and orchards.
- 4. Show a dimension to the near building of a group of buildings and to single buildings within 50 feet of the new R/W line, in areas of acquisition, to take zoning ordinances into account when making appraisals.
- 5. Property owners' names of all lands are to be shown on all detail sheets. Parcel numbers are to be shown on any detail sheets where an interest is required.
- 6. The name of the local governmental unit, in which the area depicted on the detail sheet is located, shall be shown; such as Town of _____, Village of _____, or City of _____.
- 7. Show the quarter-quarters of sections and government lots for all detail sheets as displayed on Figure 6 of Procedure 12-15-1 in the FDM.
- 8. Use chords rather than arcs to define the new R/W line, in areas of acquisition, even if the construction reference line is on curve.
- 9. The distance and bearing from one government survey monument to the next one, along the direction of the reference line, shall be shown with a dashed line on the detail sheets, when the reference line and landlines are close together.

Right of	Way Unit
Plat Gui	delines

DISTRICT ONE PLAT POLICY – SEPTEMBER 2002 - continued

10. A note shall be assigned to every R.E. plat stating the basis for establishing the existing highway right of way. The note shall take the form of a single notation on the title sheet if all existing right of way is established from a single reference source. If more than one source is utilized, there shall be a note on the title sheet and all detail sheets explaining the various sources.

Three points of reference were normally used in the past for referencing existing highway right of way. The following depicts notes that are to be placed on the title sheet and, if required, on the detail sheets.

Title sheet - multiple sources:

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINT OF REFERENCE AS SPECIFIED ON EACH PLAT DETAIL SHEET: GOVERNMENTAL LAND LINE, PREVIOUS PROJECT REFERENCE LINE OR CENTERLINE OF EXISTING PAVEMENT, as noted (use only those sources that are applicable).

Title sheet - single source:

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON XXX.

Detail sheet - multiple sources:

EXISTING HIGHWAY R/W ESTABLISHED FROM GOVERNMENTAL LAND LINE.

Or

EXISTING HIGHWAY R/W ESTABLISHED FROM PREVIOUS PROJECT XXX REFERENCE LINE.

Or

EXISTING HIGHWAY R/W ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENT.

Or

A combination thereof followed by, AS NOTED. The limits of each reference source are to be noted adjacent to the right of way taking when multiple references occur on a sheet. If the entire sheet is based on one reference, then the one source note is the only requirement.

- 11. Show small parcels on the R/W plat layout sheets, even though they may have been shown in their entirety on the detail sheets, except for those in urban areas lots, etc. In the latter case parcel numbers may be omitted. A layout sheet is not required on urban projects.
- 12. Use common symbol, small circles, for all T.I.'s throughout the plat. See the sample plats.

Right	of	Way	Unit
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ADDITIONAL DISTRICT ONE REQUIREMENTS

All mapping must be ordered and supplied through the district and not from Technical Services directly. Mapping which is loaded on tape for use in creating an electronic Real Estate plat uses the Wisconsin County Coordinate System, thus they are not to be converted from grid plane to ground.

Plat sheet files must not be rotated from their original position on the Cartesian plane. The <u>integrity</u> of the <u>grid plane orientation</u> and subsequent <u>coordinate values</u> must be maintained for future revisions on CADDS.

Leave every fifth parcel blank on the Schedule of Lands & Interests Required as shown on the example plat.

Legal descriptions on consultant projects will be reviewed and accepted by Real Estate prior to the signing of the plat.

Plat detail sheets need a DEPARTMENT supplied date in the title block prior to hard copy printing and electronic tape transmittal to the DEPARTMENT. Once the plat is completed the consultant shall submit a paper print of the plat along with the original Title sheet. Once the Title sheet has been signed and dated by the applicable District Design Chief, the District project manager will notify the consultant of the date to be placed on the detail sheets. Once the sheets have been correctly dated the consultant will submit the originals to the District, and a D-size original to be used for filing the plat with the County clerk's office.

CADD sheet cells, with applicable edit fields, are available to consultants.

No adhesive backed product is to be used on the final plat hard copy submitted to the DEPARTMENT.

The DEPARTMENT will provide the CONSULTANT various cell libraries depicting topographic features, text sizes and styles, line patterning, and standard sheet cells. The information will be available only in the DEPARTMENT'S .DGN format. Contact Bernie Gehrmann, (608) 246-3847, for specific information.

If work under this contract includes board and/or CADDS drafting on plans, then the form and standards would be as directed by the DEPARTMENT with samples provided to the CONSULTANT.

Contact the District One CADD/Drafting Unit for additional information.

Right of Way Unit	PLAT DRAFTING	September
Plat Guidelines		

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DISTRICT PLAT POLICY FOR ADVERTISING SIGNS

There are four types of advertising signs:

- 1) Encroaching signs located within the existing right of way.
- 2) Signs located within areas of right of way to be acquired.
- 3) Signs located within areas to have a temporary interest (T.I.) obtained under the project.
- 4) Signs located partially on any of the above 3 cases.

These signs are to be identified by a number; they are to be clearly labeled and the names of the sign owners are to be provided in a table on each R/W plat detail sheet containing signs.

The sign numbers are to be assigned as a two part number based on the parcel number the sign is situated on and a sequence number, such as 29-1, 29-2. If the sign is located in the existing R/W, label it as E, for encroaching, such as E-1, E-2 sequentially on each sheet. The number is to be located in a clearly visible uncluttered spot on the sheet with a leader line to the actual sign location. The sign number is to be placed within a hexagon for easy identification.

The small table should also be placed in a relatively uncluttered area of each detail sheet, preferably at the bottom of the sheet, just left of center (see sample plat). If this area is not clear on a sheet, move the table to any other relatively open space on the left half of the sheet. The sign number and the owners name both need to appear in the table.

Example Plat 1693-03-00 depicts the correct way to graphically represent advertising sign information.

Right of Way Unit Plat Guidelines PLAT DRAFTING

District One Policy for Y & X Coordinates and Significant Decimals on Plats

- Show all coordinates of points to nearest 0.001 foot, distances to nearest 0.01 foot, and bearings to nearest second.
- The following disclaimer should be on shown on all plats regardless of whether the coordinate values are shown to the nearest 0.01 or 0.001 of a foot.

Inversing between coordinates, in close proximity with each other, may not replicate the bearings and distances shown on this plat.

- When "Y" and "X" coordinate values are shown, the "Y" should be shown to the left of, or above, the "X" value of the
 point.
- List "Y" before "X" on all plat sheets, including tables.
- Coordinate values are listed by some districts to nearest 0.01 foot and by some to nearest 0.001 foot. The bearing computed from point coordinates with only two decimal digits sometimes differs "greatly" (e.g., by 20") from the bearing shown on the plat for short lines. Using three decimal digits would reduce the bearing differences. The "great" difference is perceived by some as an inaccuracy which could be made less apparent by showing point coordinates to three decimal places.
- Be consistent on plats by showing coordinates of all points with the same number of decimal digits.
- This significant-digit guidance applies to all coordinate systems, including the Wisconsin County Coordinate System, the Wisconsin State Plane Coordinate System, and ground distances calculated from Wisconsin State Plane Coordinate System grid lengths.

Plat preparers and plat users should understand that bearings and distances computed from coordinates <u>rounded</u> to two decimal places most likely will not agree exactly with the bearings and distances shown on the plat. The reason for this is that the bearings and distances shown were most likely computed from unrounded coordinate values using more than two decimal places. Bearings and distances computed from coordinates rounded to three decimal places will indicate values closer to those shown, however, again they will most likely not agree exactly with the bearings and distances shown on the plats because they were computed using a greater number of decimal places.

Righ	t of	Way	Unit
Plat	Gui	delin	es

THE FOLLOWING PAGES PROVIDE GUIDELINES FOR ENSURING THE CORRECT GRAPHIC CONTENT IS DEPICTED ON THE R/W PLATS FOR DISTRICT ONE. INFORMATION INCLUDED IS:

Page 7-8 thru 7-10 CADDS INFORMATION CHART FOR LEVELS & LINES

Page 7-11 thru 7-13 CADDS DATA LEVELS

Page 7-14 NOTES TO BE SHOWN ON THE TITLE SHEET

Page 7-15 CONVENTIONAL SIGNS AND ABBREVIATIONS

Pages 7-16 thru 7-21 CHECKLIST FOR PLAT DRAFTING

Pages 7-22 thru 7-27 PLAT/CADDS SPECIAL PROVISIONS

Pages 7-28 EXAMPLE PLATS

Right of Way Unit Plat Guidelines

CADD INFORMATION CHART FOR LEVELS & LINES

LINE SYMBOLOGY	(MODIFIED 1/4 LINE) (MODIFIED SECTION LINE)	(SOUD))	(SOLD) T (MEDRIM DASH) ** * * * * * * * * * * * * * * * * *	(SOLID) (SOLID) (WEDĞUN DASH)	(SOUD) TONGTSHORT DASH) TONG DASH) (SOUD)
UNEAR PATTERN	AP=16THL AP=GRTL AP=SECL AP=TNSHPL AP=CNTYL AP=STATEL	AP=PL AP=EXIST AP=EXIST	AP=RRPAT AP=FENCE		
CODE		0=01 0=01 0=01 0=01 0=01 0=01 0=01	0-01 CC=2 CC=2 CC=0	C=0 C=0 C=0 C=0	LC=0 LC=1 LC=3
UNE WEIGHT	⊣ 0 ₪ ₪ 4 @	O OO&NW	000	0 0	0016
LEVEL	27 27 23 23	25 23 ± ± ± 23 25 25 25 25 25 25 25 25 25 25 25 25 25	ដក់ខ្លួន	35 29 35	33 41 41
DESCRIPTION	//s LINE 1/4 LINE SECTION LINE TOWN/RANGE/TOWNSHIP LINE COUNTY LINE STATE LINE	EXISTING DRIVEWAYS, BEAMGUARD & SIDEWALKS TRANSIT LINE LOT/OUTLOT LINES CURB & GUTTER EXISTING ROAD LINES PROPERTY LINE EXISTING R/W & EASEMENT LINES H.E., P.L.E., T.I. & R.D.E. LINEWORK NEW R/W LINE REFERENCE LINE	BUILDINGS EXISTING STRUCTURES & CULVERTS UNDERGROUND FACILITY RAILROAD FENCES SLOPE INTERCEPTS TIE LINES MATCH LINES	PE'S, CULVERT AND PE PIPES BRIDGES - RURAL (SHELL) NEW BRIDGES - URBAN (DETAILED), CURB AND GUTTER, SIDEWALKS, DRIVEWAYS AND PAVEMENT EDGE EXPANSION JOINTS	E EXISTING GROUND EXISTING TRAVELWAY SPECIAL DITCHES REFERENCE LINE
·	PLAN AND/OR PLAT				PROFILE

CADD INFORMATION CHART FOR LEVELS &

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IEVEL	27 23 24 44	4 0	23	23	27	31	41	44	22 23	3 업	21	22	23	25.55	2 %	27	VARIABLE
DESCRIPTION	BEGIN & END RELOCATION NOTES (PLAT) CORPORATE NAMES 1/4-1/4 DESIGNATIONS AND TOWN NAMES BEGIN & END PROJECT NOTES (PLAN)	in .	INTERSECTION & EQUATION NOTATIONS CORPORATE LIMITS	& BLOCK TITLE LETTERING	SECTION CORNERS, PARCEL NUMBERS, FXISTING R/W DIMENSIONING NOTE & DEFINITIONS	TABLE & BENCH MARKS	PROFILE: ELEVATIONS, ALIGNMENT SLOPES & VERTICAL CURVE NOTES	TO NET	ROAD NAMES	STRUCTURE ABBREVIATIONS/NAMES	T.P.'S, G.M.'S, ETC.	BEARINGS	PROPERTY OWNERS, LOT/OUTLOT NUMBERING & C.S.M. IDENTIFICATION EXISTING BYW DIMENSIONING	STOPE INTERCEPT NOTES	R/W METES & BOUNDS AND SECTION CORNER TIES		LEADER LINES & NOTES

CADD INFORMATION & TEXT SIZE CHART

NOTE: FINAL PRINTS OF THE R/W PLAT DETAIL SHEET(S) SHOULD BE CREATED IN THE FOLLOWING FASHION: (BASE - SCREENED LINEWORK) CONTAINS ONLY THE INFORMATION ON LEVELS 11-15, 17-19 AND (OVERLAY - SOLID LINEWORK) CONTAINS ONLY THE INFORMATION ON LEVELS 21-28 AND 59; SOMETIMES LEVEL 16.

THE CADD INFORMATION CHART FOR LEVELS & LINES REPRESENT LINE WEIGHTS RELATIVE TO BOARD DRAFTING.

THE HARD COPIES SHALL NOT BE ELECTROSTATIC.

CADD GENERATED PLATS SHOULD HAVE LINE WEIGHTS INCREASED BY 1 (JUICED).

ON A 1"=100' SCALED PLAT, USE A PATTERN SCALE OF 1. ON A 1"=50' SCALED PLAT USE A PATTERN SCALE OF 0.5.

			ΤW	2	2.4	2.8	3.5	4	7
		20	표	1.8	2.16	2.52	3.15	3.6	6.3
CADDS TEXT SIZE SCALE	Ш	0	ΜL	ີຂ	9	7	8.75	10	17.5
	SCA	09	н	4.5	5.4	€.3	88" 2	6	15.75
		100	TW	10	12	14	17.5	20	35
		10	H	6	10.8	12.6	15.75	18	31.5
LEROY	GUIDE	SIZE		100	120	140	175	200	350

CADDS DATA LEVELS Levels 1 - 19

Technical Services generated for planimetric mapping projects, subject to District generated additions. Levels 20 - 63

District generated for planimetric mapping projects.

PLOT USE	<u>LEVEL</u>	<u>CONTENTS</u>	PLOT USE	LEVEL	CONTENTS
	1		<u>ILOI USE</u>	<u>LE VEL</u>	CONTENTS
	2		Plan/PLAT	17	Driveways, Guardrail, Sidewalks, R/W marker post
	3		DI /DI A/E	10	T D 11' O 1 1
Plan	4		Plan/PLAT	18	Trees, Bushline, Orchard, Pine trees, Ornamental shrubs
Plan	5				
Plan	6		Plan/PLAT	19	Stream line, Swamp, Ditch lines
Plan	7		Plan	20	
Plan	8		Plan/PLAT	21	Existing underground: Underground utilities -
Plan	9				water, sewer, telephone, electrical, CATV
Plan	10				Telephone pedestal Gas valve
Plan/PLAT	11	Roads			Drain tiles Caution symbol
Plan/PLAT	12	Buildings, Windmills, Towers, Wells, Gas pumps, Conc. slab, Ruins, Quarry			O.H. electric Transmission line
		, and the second	Plan/PLAT	22	Horizontal alignment:
Plan/PLAT	13	Railroad tracks, Railroad signals, Runway			Proposed alignments Channel change Curve data
Plan/PLAT	14	Utility poles, Signs, Light poles, Signal box, Transmission towers			Equation arrows North arrows Bearings Relocated P.E. centerline
Plan/PLAT	15	Structures, Culverts, Fences, Retaining walls			
Plan/PLAT	16	Manholes, Valves, F.H., Inlets, S.D. = Storm Drains			

Right of Way Unit Plat Guidelines

PLOT USE	<u>LEVEL</u>	<u>CONTENTS</u>	PLOT USE	LEVEL CONTENTS
Plan/PLAT	23	Existing land description: Existing R/W and Z's Existing easements Property lines Property owners State boundary line County boundary line Corporate limits and annotation Corporate name Road names Lot/Outlot lines & numbering & Z's Subdivision naming Property pin, Monuments Cemetery text Mileage to nearest town	PLAT	27 R/W miscellaneous: Blow-up boundaries or identical points and contents R/W BEGIN/END notes and coordinate ties Parcel numbers Exist. R/W source notes T.I., P.L.E. & R.D.E. description Access control Land lines - section, 1/4, 1/16, town & range lines with Z's and pluses Section / 1/4 corner symbols 1/4 - 1/4 identification Civil Town names Distance between new r/w & bldgs. Road to be discontinued by town board action note
PLAT	24	Feature items for agents: Encroaching buildings Sign block & hexagon Applicable signs Compensable utility poles & Transmission tower Septic vent	Plan/PLAT	Land tie details 28Large structures and Point table: Bridge - Rural (shell) Culvert pipes ≥ 42" Cattle passes R/W point information table
Plan/PLAT	25	R/W required: New R/W line work Slope intercepts Match line T.I. & P.L.E. line work R/W monuments	Plan Plan Plan	29 30 31
PLAT	26	Utility Plan deletions: Parcel cross-hatching R/W metes & bounds T.I., P.L.E., & R.D.E. pattern & description letter designation R/W point leader line w/sta. & dist. R/W point numbers		

PLOT USE	<u>LEVEL</u>	<u>CONTENTS</u>			
Plan	32		PLOT USE	<u>LEVEL</u>	CONTENTS
Plan	33		Plan-Traffic	53	
			Plan-Traffic	54	
Plan	34		Plan-Traffic	55	
Plan	35			56	
Plan	36		DI		
Plan	37		Plan	57	
Plan	38		PLAT	58	Plat sheet limits (cutouts)
Plan	39		Plan/PLAT	59	Master sheet cells: Title, detail and profile
1 1411					sheets as noted in cell
	40				library
Plan	41		Plan/PLAT	60	Master sheet cells: R/W base and profile grid-
	42				plot as noted in cell library
Plan	43		Plan	61	
Plan	44			62	
	45			63	
	46				
	47				
Plan	48				
	49				
Plan	50				
	51				
Plan-Traffic	52				

Right of Way Support Unit Plat Guidelines

NOTES

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO THE REFERENCE LINES.

GOVERNMENTAL LAND LINE AND REFERENCE LINE ARE NOT COINCIDENTAL.

DISTANCES FROM REFERENCE LINE ARE

OR XX'G ×× DISTANCES FROM GOVERNMENTAL LAND LINE ARE

P ON THE FOLLOWING POINTS EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED REFERENCE AS SPECIFIED ON EACH PLAT DETAIL SHEET

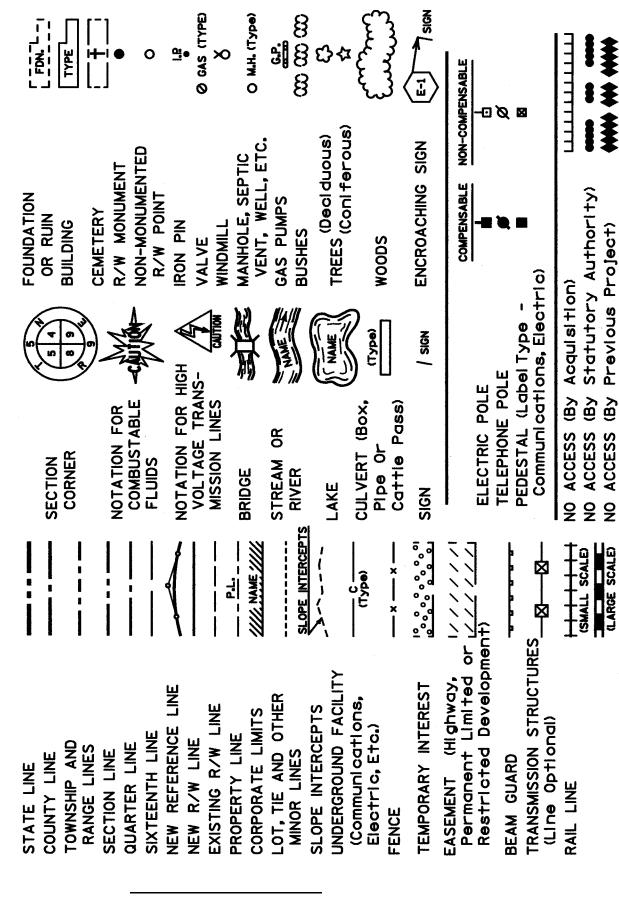
COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COUNTY. ALL PLAT DISTANCES ARE GROUND LENGTH. COORDINATE SYSTEM,

THE TIME AND ARE PLACED PRIOR TO OR AT N TYPE ARE WAY MONUMENTS TITLE TRANSFER. P RIGHT LAND

R

OTHER "SURVEYS OF PUBLIC RECORDS" THE PERIMETER OF THE HIGHWAY OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR ANDS RIGHT

CONVENTIONAL SIGNS AND ABBREVIATIONS



CHECK SHEET FOR TITLE SHEET

CHECKE	D BY	DATE	PROJECT I.D. #	
Major Title	· Block·			PROJECT CHARGE #
	Sheet Number (200 g.) Total Sheets (200 g.) R/W Project Number (200 Federal Project Number (2 Project Title (name), (200 Project Subtitle (name), (1 Highway Involved and Cor	00 g.) g.) 40 g.)		
Location S	ketch:			
	Label all Town roads inter Label and show latest perti	secting project limits nent corporate limits of a nations with demarcation (regular north arrow seldo ide for project; dashed lin order (200 g.) with land tie	Il cities and villages lines extended beyond map om used) e for remainder of route es (140 g.)	are shown on latest County map limits (140 g.)
Convention	nal Signs and Abbreviations:	(For graphic information,	see Dennis Dreier or Clyde	e Clark.) – (Abbreviations are unique to each plat).
	Notes: (For graphic inform	nation, see Dennis Dreier	or Clyde Clark.)	
	DIMENSIONING FOR TLINES.	THE NEW R/W IS ME	ASURED ALONG AND	PERPENDICULAR TO THE NEW REFERENCE
	GOVERNMENTAL LAN COINCIDENTAL.	D LINE AND REFEREN	ICE LINE ARE NOT	When
	DISTANCES FROM REF	ERENCE LINE ARE	$\stackrel{\text{`}}{\longleftarrow} XX$, " $\stackrel{\text{R}}{\longleftarrow}$	Applicable
	DISTANCES FROM GOV	VERNMENTAL LAND I	LINE ARE " XX' G	or "XX'G"

CHECK SHEET FOR TITLE SHEET - CONTINUED

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE AS SPECIFIED ON EACH PLAT DETAIL SHEET: (For available options, see District One Design Section Policy Statement for R.E. Plats).
COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, COUNTY. ALL PLAT DISTANCES ARE GROUND LENGTH.
RIGHT OF WAY MONUMENTS ARE TYPE 2 AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.
RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER "SURVEYS OF PUBLIC RECORDS."
 Schedule of Lands and Interests Required: (When inclusion on title sheet is warranted.) (For graphic information, see Dennis Dreier or Clyde Clark.)
Parcel Number(s) - Leave every 5th # empty for additions. Sheet Number(s) Owner(s) Interest Required Total Acres or S.F. R/W Acres Required or S.F.
New Existing Total
Total Acres or S.F. Rem. T.I. & P.L.E. Acres or S.F. R.D.E. Acres or S.F. (when necessary)
 Note concerning acreage: (For graphic information, see Dennis Dreier or Clyde Clark.)
AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER, WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.
 Signature Block Revision date followed by N.C. when applicable (100 g.)
E USE THE EXAMPLE PLATS FURNISHED BY DISTRICT ONE FOR ALL GRAPHIC REPRESENTATION, LINE WORK AND Any graphic questions and concerns should be directed to Dennis Dreier or Clyde Clark.)

CHECK SHEET FOR SCHEDULE OF LANDS AND INTERESTS REQUIRED

CHECKED) BY	DATE	PROJECT I.D. #	
				PROJECT CHARGE #
Title Block:				
	Sheet Number (200 g.) Leave room for constructi R/W Project Number (200 Federal Project Number (300 Highway involved and Conduct (140 g.) Revision date followed by	0 g.) 200 g.) punty (140 g.)	te number, per example plat	
	Schedule of Lands and Int	terest Required: (For	graphic information, see Dennis Dr	reier or Clyde Clark.)
	Parcel Number(s) - Leave Sheet Number(s) Owner(s) Interest Required Total Acres or S.F. R/W Acres Required or S		r additions	
	New Existing Total			
	Total Acres or S.F. Rem. T.I. & P.L.E. Acres or S.F. R.D.E. Acres or S.F. (whe			
	Note concerning acreage:	(For graphic informa	tion, see Dennis Dreier or Clyde Cl	lark.)
		BLE SOURCES AN	ND MAY NOT INCLUDE LA	ATE AND ARE DERIVED FROM TAX ROLLS NDS OF THE OWNER, WHICH ARE NOT
			RNISHED BY DISTRICT ONE Find concerns should be directed to I	FOR ALL GRAPHIC REPRESENTATION, LINE Dennis Dreier or Clyde Clark.)

CHECK SHEET FOR LAYOUT SHOWING PROPERTY BOUNDARIES AND ACREAGE

(Real Estate)

CHECKE	D BY _	DATE	PROJECT I.D. #	
Title Block	Ξ:			PROJECT CHARGE #
	Leave ro R/W Pro Federal Highway Not to so Date	number (200 g.) from for construction number under page froject Number (200 g.) Project Number (200 g.) Involved and County (140 g.) Froject (140 g.) Froject Number (200 g.) In date followed by N.C. when applicable		
Layout:				
	Highway Corpora Section Town na Label al Label al Townsh Parcel N Standard Alignme Begin re	tines, township lines, range lines and prose, public roads, railroads, lakes, rivers, te limits numbers (350 g.) Immes across layout (200 g.) and along to highways and public roads (100 g.) I cities, towns and villages (200 g.) I lakes, rivers, ponds, streams and railroup and range designation (100 g.) I umbers (140 g.) - Leave every 5th # en ligrid north arrow (regular north arrow ints used with stationing every 5000 fee location order with sta. (140 g.) cation order with sta. (140 g.)	ponds and streams own border (140 g.) oads (100 g.) npty for additions seldom used)	ed (100 g.)
NOTES:				
		hall parcels need to be exaggerated in si reels in urban areas need not be shown.	ze for display purposes.	

- All text should be read vertical from either right or left with perpendicular to bottom border being the base line. (Excluding proper section information, which always reads north.)

PLEASE USE THE EXAMPLE PLATS FURNISHED BY DISTRICT ONE FOR ALL GRAPHIC REPRESENTATION, LINE WORK AND TEXT. (Any graphic questions and concerns should be directed to Dennis Dreier or Clyde Clark.)

Right o	f Way Support	Unit
Plat Cu	uidalinas	

CHECK SHEET FOR DETAIL SHEET(S)

(Real Estate)

CHECKE	D BY	DATE	PROJECT I.D. #
			PROJECT CHARGE #
Title Block	:		
	Sheet Number (200 g.) Leave room for construction R/W Project Number (200 Federal Project Number (200 Highway involved and Cou Scale (120 g.) Grid factor (140 g.) N/A — Date (140 g.) Revision date followed by	g.) 00 g.) inty (140 g.) not applicable	
Detail Shee	et(s):		
	Horizontal alignment with a Station horizontal alignment Denote all equations, with a Tangent bearings (100 g.) Curve notes (coordinates of Existing highway right of warden Property lines Governmental land lines Match lines (with station and Standard grid north (regular	station ticks every 100 fe nt every 500 feet (100 g.) symbol, on mainline only n mainline P.I.'s only) (1- way, railroad property line and see sheet 4.x) when la	v (140 g.) 40 g.) es and pedestrain/bike trails. Ind line or P.L. is unavailable, per example plat
END OF S	TAGE ONE		
Property R	eady for Title Search Informa	ation:	
	Direction information (mile Dimensions for existing his Governmental 1/4 - 1/4's a P.L. text and land line static Show existing easements w Label corporate limits and Label civil towns on each of Label and number lots and	e) to nearest city or village hway R/W, railroads, and lots (200g). oning when necessary (10 with proper dimensions desubdivisions detail sheet (200 g.) and a outlots (100 g.) and bloc roads, cities, villages, lake	enoted (100 g.) along town border (140 g.)
END OF S	<u>TAGE TWO</u>		

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CHECK SHEET FOR DETAIL SHEET(S) - CONTINUED

	Label buildings, wells, iron pins and other select topography (100 g.)
	Distance from new right of way to nearest building in group within 50 feet (100 g.)
	Show channel change
	Parcel numbers - leave every 5th # empty for additions (140 g.)
	New right of way with monument, station and out at every break or jog denoting bearing change (do not jog R/W on unmonumented
	P.L.) (100 g.)
END OF S	TAGE THREE
	Bearing and distance from recovered U.S. Public Land Survey Corner to new R/W or held existing R/W, and from there
	to R/W reference line or tangent if curve is intersected (100g.).
	Metes and bounds dimensions and bearings along new and held R/W as well as to, from and around all easements (100 g.)
	Road closed
	Compensable utility poles and pedestals (solid)
	Change utility easements to proper format and label accordingly (100g.).
	Show all new bridges and large pipes (42" and over)
	Heavily outline buildings to be moved or acquired
	Crosshatch right of way (no repeats of pattern per sheet)
ENID OF G	TA CE FOLD
END OF S	TAGE FOUR
	Slope intercepts with label (100 g.)
	Label underground utilities and show owners (100 g.)
	Signs between new or held R/W shall be identified by an alpha-numeric character within a hexagon (100 g wt. #1), with sign owner
	names provided in a small table (100 g wt. #1). (Table cell provided by District on request.) (See 3-1-91 explanation and example
	from Chief R.J.S.)
	Access control
	Show source note for existing highway right of way (how established) (140 g.)
	Begin relocation order with stationing (200 g.) & coordinates (140 g.)
	Tie to previous project when applicable or possible
	End relocation order with stationing (200 g.) & coordinates (140 g.)
	Tie to previous project when applicable or possible
END OF S	TAGE FIVE
NOTES:	
	CADD SHEETS - LEVELS MUST BE PROPERLY SHOWN AT LEFT SHEET BORDER.
	CADD SHEETS - ALL SHEETS MUST BE LEVEL PERFECT.
	PLEASE USE EXAMPLE PLATS "5680-02-21, 1200-03-21, & 1693-03-00" FURNISHED BY DISTRICT ONE FOR ALL
	GRAPHIC REPRESENTATION, LINE WORK AND TEXT. (Any graphic questions and concerns should be directed to Dennis
	Dreier or Clyde Clark.)

Special Provisions For Consultant Contracts (Excerpt)

PLATS

- 1) The CONSULTANT shall prepare Right-of-Way Plats as defined in the FDM and the DEPARTMENT's District One Right-of-Way Plat guide dated September 16, 2002.
- 2) Prior to start of the plat the CONSULTANT shall set up a meeting with the Right of Way Plat Unit to review the Special Provisions, FDM procedures, and the District 1 Right of Way Plat Guide.
- 3) In order to develop the right of way plat the consultant is to obtain 60-year ownership reports on each parcel. (See also J.2a). One copy of each report is to be delivered to the Department along with the right of way plat. These reports are to contain at a minimum the following items:
 - a. Names and addresses of all present owners together with a copy of the last conveyance (deed or land contract), which conveys title to the present owner. Also provide copies of the following:

Final Judgments
Active mortgages
Liens and recording data
All easements of record (Including those that go beyond 60 years)

Subdivision Plats, Certified Survey Maps as applicable, and any other encumbrances of record.

- b. If the parcel description contains a referenced deed, a copy of that deed should also be submitted. If a parcel description contains or refers to a certified map or subdivision a copy of it shall be included in the report.
- c. Copies of the latest real estate tax statement, and plat or tax maps affecting any of the properties searched.
- d. Complete description of all land in the conveyance quoted which includes the parcel searched, with recording data, revenue stamps or transfer fee, and acreage if available or easily computed.
- e. Delinquent real estate taxes, State and Federal Tax Liens, future special assessments, liens, and judgments.

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- f. Full search of title is required on only the land abutting the highway, which is being purchased by the Department. All other contiguous ownership shall be shown with tax maps and descriptions listing acreage and assessed values.
- g. The project I.D. and parcel number shall be on each report.
- 4) Right of way descriptions shall be provided for all individual parcels of land to be acquired as Right of Way for the PROJECT. Descriptions shall be by metes and bounds in accordance with the provisions as set forth in the MANUAL, or in the case of platted property by suitable reference to the platted data. For all unplatted property the descriptions shall be referenced to and tied into the pertinent section or quarter section corners.
- 5) The CONSULTANT shall prepare the Descriptions in line item format using IBM compatible PC- MS Word 7.0 software and provide a copy of this diskette to the DEPARTMENT.
- 6) The CONSULTANT shall provide one survey effort to field locate and temporarily mark the new right-of-way boundaries. The purpose of right-of-way (R/W) staking is to enable Property Owners, Appraisers and Negotiators to assess the affects of the highway project. A marker is needed at each point where the R/W line changes direction plus a marker on or near each property line. Also, in areas with landscaping, buildings and /or other improvements, additional stakes may be necessary so that it is readily determined what items are being affected. Place R/W lath showing new R/W line, TI's, PLE's RDE'S etc. using the following guidelines:
 - a. Write the stationing on one side of the lath.
 - b. Write R/W (TI, PLE, RDE, etc.) and the centerline offset on the other side of the lath.
 - Color code each lath with paint and ribbon as follows:
 New R/W Orange, red or pink
 Easements (TI, PLE, RDE) Blue
 - d. But a nail, flag and or paint where lath cannot be placed or will not stay.
 - e. Aim a marker at that point.
 - f. Put intermediates intervisible all points should have another point visible (especially in front yards and improved areas)
 - g. Stationing should be facing down line, not toward the road, for pictures.
 - h. Existing R/W need not be staked except in areas where the new R/W starts or ends and where needed and ask for specifically. Please coordinate your staking activities with the District Real Estate Section. The Real Estate Section needs at least two weeks lead time to send letters to the property owners. If you see property owners, please be courteous, introduce yourself and let them know what you are doing. Also have names and phone numbers of Real Estate agents available if a property owner needs additional information.
- 7) The CONSULTANT shall provide the DEPARTMENT with hard copy, one full-size and three half-size prints of the plat with right-of-way points and TI's numbered, using no duplicated numbers- a hard copy of all points in ground (N, E) coordinates; and a electronic disk containing the same information in AASHTO SDMS format prior to PS&E.

8)	The CONSULTANT shall provide a full size of the draft plat to the D-1 utility coordinator for review after all
	existing information, including utility facility locations, has been added by

9) The CONSULTANT shall provide a full size copy of the final plat to the D-1 utility coordinator and a half size copy to the Right of Way Plat Unit for review just prior to initial plat submittal.

CADDS

The Computer Aided Design Drafting System services which is a part of this CONTRACT, shall at all times be subject to the review and approval of the DEPARTMENT, shall be under the direction of the appropriate CADDS representatives, and shall be in accord with all requirements of the DEPARTMENT, including those contained in the DEPARTMENT'S Facilities Development Manual and applicable professional standards.

Prior to any services under this CONTRACT, a dialogue shall take place between the CONSULTANT representative and the appropriate CADDS representative to discuss and review applicable drafting forms and standards, and sample graphics handouts.

The forms and standards shall be as defined in the Facilities Development Manual and the Transportation District One Right of Way Plat Guide dated September 16, 2002, and all subsequent revisions, and supplemented with the following requirements. The District policy statement will be provided to the CONSULTANT.

Additional plat/plan and methodology requirements are as follows:

- 1) CADDS generated paper/film plots of plat/plan sheets shall depict existing topographic features as shown on CADDS levels 11 19. Level 16 may be required as an existing feature for select urban plats. Plat design and acquisition information shall be depicted utilizing CADDS levels 21-28 and 59. For plan design requirements, see plan CADDS representative.
- 2) Existing features shall be depicted per example plats and plans. Design and acquisition information shall be solid lines.
- 3) Prior to the RPC/PS&E date, the CONSULTANT shall submit individual half-size paper plots of plat/plan sheets at 30%, 60%, and 90% stages of completion. The applicable levels shall appear at the left margin, per examples, in order to confirm proper levelization and depiction.
- 4) Final film copy of R/W plats shall be provided to the DEPARTMENT at the time of PS&E, or at the direction of the CADDS plat representative.

- 5) The final film copy of right of way plats **must not** be electro statically prepared. It must be DEPARTMENT approved first generation, double matte, reverse, high contrast film.
- 6) All electronically prepared plat and plan sheets must be formatted into individual sheet files before final check plots are made for the DEPARTMENT.
 - a. Each completed electronic right of way plat sheet shall be a stand-alone sheet with **no** reference files attached. Each sheet must be level perfect and coordinate integrity must be maintained.
- 7) All plat sheets must be dated using a DEPARTMENT supplied date prior to final transmittal to the DEPARTMENT.
- 8) Plat and plan sheet files must not be rotated. The integrity of the grid plane orientation and subsequent coordinate values must be maintained for future revisions on CADDS.
- 9) Electronic plats and plans shall be prepared CADDS level perfect. In this way, future electronic revisions can be made and there will be confidence in the integrity of data levels. At the direction of the appropriate DEPARTMENT CADDS representative, the CONSULTANT shall provide the DEPARTMENT with plat or plan sheet files loaded to a CD-ROM. The DEPARTMENT will perform a random level check prior to accepting the sheets as being complete. If there is more than 5% error in data leveling, the CONSULTANT must check each file, make corrections, and resubmit to the DEPARTMENT for another check. If corrections need to be made by the CONSULTANT, a new set of original hard copies must be provided to the DEPARTMENT.
- 10) Electronically prepared contract items must be submitted to the approved electronic media in .DGN format.
- 11) All mapping must be obtained directly from the DEPARTMENT district office.
- 12) Adhesive backed products are not to be used on the final hard copy submitted to the DEPARTMENT.
- 13) Leave every 5th parcel blank on the Schedule of Lands & Interests Required as shown on the DEPARTMENT example plat.

SERVICES TO BE PROVIDED BY THE DEPARTMENT

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The DEPARTMENT agrees to:

- 1) The DEPARTMENT will provide to the CONSULTANT sample projects that depict current standards and practices as required by District One.
- 2) The DEPARTMENT will provide to the CONSULTANT a 'CADD Information Chart for Levels and Lines'. This chart shows line symbolism, line weights, text sizes, and other information that shall be used to prepare plat and plan sheets.
- 3) The DEPARTMENT will provide to the CONSULTANT a 'CADD Data Levels' chart showing the breakdown of levels and the data assigned to each. The CONSULTANT prior to DEPARTMENT acceptance must correctly place all data.
- 4) The DEPARTMENT will provide to the CONSULTANT a 'Check List' for individual plat sheets. This is an in-depth, sheet-by-sheet graphic aid checklist that shall be used by the CONSULTANT in preparing the plat.
- 5) The DEPARTMENT will provide to the CONSULTANT a Relocation Order Revision Form (RORF) sample. This documents parcel-specific information changes, which are made to the plat at the time a dated revision is made. The RORF shows a brief, yet complete written account of applicable changes made to a plat since the last dated copy. The CONSULTANT shall discuss with the DEPARTMENT Technical Service section, R/W Support Unit representative, if this item is required.
- 6) The DEPARTMENT will provide to the CONSULTANT a policy statement dated March 1, 1991 and prepared by Robert J. Stone, P.E. depicting graphics and stating District procedures for dealing with advertising signs.
- 7) The DEPARTMENT will provide the CONSULTANT with:
 - a. Design information for CADD efforts.
 - b. CADDS electronic media in .DGN format with DEPARTMENT, project specific computer graphics data.

REVISION OF COMPLETED PLANS/PLATS

Section V. B. of the Standard Provisions shall be amended as follows:

The CONSULTANT shall make such revisions in plats or plans which have been completed, approved, and accepted by the DEPARTMENT as are necessary to correct errors in the plats or plans made by the CONSULTANT, when required to do so by the DEPARTMENT without compensation thereof from the DEPARTMENT.

Should the DEPARTMENT find it desirable for its own purposes to have previously satisfactorily completed and accepted plats or plans or parts thereof revised, the CONSULTANT shall make such revisions if requested and as directed by the DEPARTMENT. Such service shall be considered "Extra Work'.

ADDITIONAL SERVICES PROVIDED BY THE DEPARTMENT

The DEPARTMENT will provide to the CONSULTANT the following for the PROJECT:

- 1) Approved Memorandum of Understanding
- 2) Traffic Projections and Count.
- 3) As-built plans, as may be available
- 4) Existing right of way plat and drawings, as may be available.
- 5) Accident reports/data as may be available.
- 6) Planimetric Mapping and Digital Terrain Model
- 7) Horizontal and Vertical Control survey data.
- 8) Subsurface Soils Investigation.
- 9) Pavement Type Selection Report.

EXAMPLE PLATS

The attached plats provided are intended to be used as a guide for graphic representation, and to be utilized in your preparation of plats. Because of recent changes involved in the display of R/W monumentation and utility easements, we are unable to provide you with an all inclusive example plat. For this we apologize. District One expects complete adherence to the examples and guidelines provided in the R/W Plat Guide!

Example Plats 1693-03-00, 5680-02-21 and 1200-03-21 do not reflect our current policy of monumenting all permanent interests (easements), as does 5593-00-21.

Example Plats 5680-02-21 and 1200-03-21 do not reflect our current policy of numbering R/W monuments in a diagonal fashion with accompanying R/W point number and coordinate table.

Example Plat 1200-03-21 does not reflect our current policy on numbering R/W Plat sheets. The title sheet should start with 4.1 as depicted on the other examples.

Prior to starting any R/W plat you should have requested a Compact Disk containing all of our Current Drafting Standards (Cell Libraries, Line Styles, etc.).

PLEASE contact Dennis Dreier at (608)246-5352 or Clyde Clark at (608)246-7905 for your R/W PLAT DRAFTING questions or concerns.

Links to Example Plats

<u>1693-03-00</u>

5680-02-21 1200-03-21

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